

INTEGRATED Environmental Services, Inc.

July 15, 1998 Via Federal Express

Hugh Marley
James E. Ross
California Environmental Protection Agency
Regional Water Quality Control Board
Los Angeles Region
101 Center Plaza Drive
Monterey Park, CA 91754-2156

Subject:

Parcel B Supplemental Site Investigation Report

Boeing Realty Corporation C-6 Facility, Los Angeles

Dear Gentlemen:

On behalf of the Boeing Realty Corporation, I am pleased to provide the results of the approved sampling and analysis work plan for the Parcel B Supplemental Site Investigation. The report documents the investigation of the four "areas of interest" identified during a review of recently discovered historical records.

None of the areas sampled were found to contain constituents in concentrations that, in our opinion, warrant remediation. As agreed, however, the final determination of soil closure will be based on the results of the post-demolition risk assessment of Parcel B.

As always, I appreciate your support and guidance on this important project. If you have any questions, please feel free to contact me directly.

Very truly yours,

Michael Y. Young, Ph.D.

President

Enclosure

CC: K. Baker, DTSC (LB) w/ encl.
D. Oudiz, DTSC (Sac) w/ encl.

S. M. Stavale, Boeing w/ encl. (2)





INTEGRATED Environmental Services, Inc.

August 12, 1998 Via Federal Express

Hugh Marley
James E. Ross
California Environmental Protection Agency
Regional Water Quality Control Board
Los Angeles Region
101 Center Plaza Drive
Monterey Park, CA 91754-2156

Subject:

Response to RWQCB Comments, July 29, 1998

Boeing Realty Corporation C-6 Facility, Los Angeles

Dear Gentlemen:

Thank you for a thorough and expedient review of the subject document. Integrated has reviewed the comments prepared by the Water Board and has provided the requested disposal manifest documentation for inclusion in the Parcel B Supplemental Site Investigation Report.

As always, I appreciate your support and guidance on this important project. If you have any questions, please feel free to contact me directly.

Very truly yours,

Chris Stoker Program Manager

Enclosure

CC: K. Baker, DTSC (LB) w/ encl. D. Oudiz, DTSC (Sac) w/ encl.

S. M. Stavale, Boeing w/ encl. (2)



California Regional Water Quality Control Board

Los Angeles Region



Internet Address: http://www.swrcb.ca.gov/~rwqcb4 101 Centre Plaza Drive, Monterey Park, California 91754-2156 Phone (323) 266-7500 FAX (323) 266-7600

July 29, 1998

Mr. Chris Stoker Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

PARCEL B SUPPLEMENTAL SITE INVESTIGATION - BOEING C-6 FACILITY, LOS ANGELES, CALIFORNIA (FILE NO. 100.315)

We have received and reviewed your Parcel B Supplemental Site Investigation - Boeing C-6 Facility, Los Angeles, California, dated July 1998. The majority of Parcel B was previously characterized by BRC. This report details the supplemental investigation performed at four (4) recently identified, additional areas of interest.

Section 5.4.2 indicates that PCB contaminated concrete footings were identified and excavated from Building 14. The report conclusions (Section 6) must reflect the above findings. Also, provide us with the final disposition of the PCB contaminated concrete.

Should you have any questions regarding the above, please contact Hugh Marley at (213) 266-7669.

J.E. ROSS, Unit Chief Site Cleanup Unit

CC:

Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs

Mr. Mario Stavale, Boeing Realty Corporation

Mr. Jeff Dhont, Federal EPA

California Environmental Protection Agency



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6. CONCLUSIONS

The supplemental site investigation of Parcel B was conducted in accordance with the approved sampling and analysis plan (SAP) as modified to account for newly available historical drawings (IESI 1998a, b, c). The data generated during this investigation will support future site remediation, feasibility studies, groundwater investigations, and risk assessment, should such actions become necessary.

The investigation focused on four areas deemed to have environmental interest because of possible impacts from former operations. These areas of interest (AOIs) are:

- AOI 1, concrete piers adjacent to the rectifier building
- AOI 2, two small electrical substations
- AOI 3, an array of electrical transmission towers
- AOI 4, the central cluster of buildings

None of the AOI soils were found to contain constituents of potential concern (COPCs) at levels that warrant remediation. The PCB impacted concrete foundation from Building 11 was transported to Chemical Waste Management, Inc. in Kettlemen City, California, an approved PCB disposal facility. Appendix G contains the manifest for the PCB-impacted concrete.

The western portion of Building 4 (in AOI 4) will be investigated at a later date, when the main power source for the site is relocated. The results of that investigation will be prepared as an addendum to this report.

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APPENDIX G PCB DISPOSAL MANIFEST

PARCEL B
SUPPLEMENTAL SITE INVESTIGATION
BOEING REALTY CORPORATION
C-6 FACILITY
JULY 1998

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California Regional Water Quality Control Board

Los Angeles Region



Internet Address: http://www.swrcb.ca.gov/~rwqcb4 101 Centre Plaza Drive, Monterey Park, California 91754-2156 Phone (323) 266-7500 FAX (323) 266-7600

July 29, 1998

Mr. Chris Stoker Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

PARCEL B SUPPLEMENTAL SITE INVESTIGATION - BOEING C-6 FACILITY, LOS ANGELES, CALIFORNIA (FILE NO. 100.315)

We have received and reviewed your Parcel B Supplemental Site Investigation - Boeing C-6 Facility, Los Angeles, California, dated July 1998. The majority of Parcel B was previously characterized by BRC. This report details the supplemental investigation performed at four (4) recently identified, additional areas of interest.

Section 5.4.2 indicates that PCB contaminated concrete footings were identified and excavated from Building 14.) The report conclusions (Section 6) must reflect the above findings. Also, provide us with the final disposition of the PCB contaminated concrete.

Should you have any questions regarding the above, please contact Hugh Marley at (213) 266-7669.

J.E. ROSS, Unit Chief

Cets 1 Elis

Site Cleanup Unit

cc: Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs

Mr. Mario Stavale, Boeing Realty Corporation

Mr. Jeff Dhont, Federal EPA

California Environmental Protection Agency



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6. CONCLUSIONS

The supplemental site investigation of Parcel B was conducted in accordance with the approved sampling and analysis plan (SAP) as modified to account for newly available historical drawings (IESI 1998a, b, c). The data generated during this investigation will support future site remediation, feasibility studies, groundwater investigations, and risk assessment, should such actions become necessary.

The investigation focused on four areas deemed to have environmental interest because of possible impacts from former operations. These areas of interest (AOIs) are:

- AOI 1, concrete piers adjacent to the rectifier building
- AOI 2, two small electrical substations
- AOI 3, an array of electrical transmission towers
- AOI 4, the central cluster of buildings

None of the AOI soils were found to contain constituents of potential concern (COPCs) at levels that warrant remediation. The PCB impacted concrete foundation from Building 11 was transported to Chemical Waste Management, Inc. in Kettlemen City, California, an approved PCB disposal facility. Appendix G contains the manifest for the PCB-impacted concrete.

The western portion of Building 4 (in AOI 4) will be investigated at a later date, when the main power source for the site is relocated. The results of that investigation will be prepared as an addendum to this report.



APPENDIX G PCB DISPOSAL MANIFEST

PARCEL B
SUPPLEMENTAL SITE INVESTIGATION
BOEING REALTY CORPORATION
C-6 FACILITY
JULY 1998

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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	16. GENERATOR'S CERTIFICATION: 1 hereby d	eclare that the content	s of this consignment are full-	v and accurately de	scribed abo	ove by proper shipping	name and ac	e classified i	oacked.	
	marked, and labeled, and are in all respect	s in proper condition	for transport by highway ac	cording to applical	ole internati	onal and national gov	ernment regu	lations.	,,	
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3834243CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPC.

	1. Generator's US EPA	D No.	Manifes	t Document	No.	2. Page 1		in the shaded areas
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3. Generator's Name and Mailing Address BOEING REALTY CORP 19503 NORMANDIE AVE						Manifest Document N	9	8342432
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38342432CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPO

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

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If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL,

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

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UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. C A D O 8 6 5 12		1	9 7	2. Page 1 1 of	is not requir	in the shaded areas red by Federal law.
3. Generator's Name and Mailing Address BOEING REALTY CORP. 19503 NORMANDIE AVENUE		dr.	A. State M	lanifest Document N	lumber 9	83002
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	3. Generator's Name and Mailing Address BOEING REALTY CORP.		.:-	A. State A	Manifest Document N	983002
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If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Signature

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month Day Year
JOHN MALAZO	1 Mint	07/1096
17. Transporter 1 Acknowledgement of Receipt of Materials	<u> </u>	
Printed/Typed Name	Signature, /	Month Day Year
Kon STavens	In Stun	017/10/918
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year
ļ		
19. Discrepancy Indication Space		

DO NOT WRITE BELOW THIS LINE.

Printed/Typed Name

T

IN CASE OF EMERGENCY OR

Day



California Regional Water Quality Control Board

Los Angeles Region



Internet Address: http://www.swrcb.ca.gov/~rwqcb4 101 Centre Plaza Drive, Monterey Park, California 91754-2156 Phone (323) 266-7500 FAX (323) 266-7600

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AUG 1 0 1998

MDRC-CRS

July 29, 1998

Mr. Chris Stoker Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

PARCEL B SUPPLEMENTAL SITE INVESTIGATION - BOEING C-6 FACILITY, LOS ANGELES, CALIFORNIA (FILE NO. 100.315)

We have received and reviewed your Parcel B Supplemental Site Investigation - Boeing C-6 Facility, Los Angeles, California, dated July 1998. The majority of Parcel B was previously characterized by BRC. This report details the supplemental investigation performed at four (4) recently identified, additional areas of interest.

Section 5.4.2 indicates that PCB contaminated concrete footings were identified and excavated from Building 14. The report conclusions (Section 6) must reflect the above findings. Also, provide us with the final disposition of the PCB contaminated concrete.

Should you have any questions regarding the above, please contact Hugh Marley at (213) 266-7669.

J.E. ROSS, Unit Chief Site Cleanup Unit

Tests 1 Elect

CC:

Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs Mr. Mario Stavale, Boeing Realty Corporation

Mr. Jeff Dhont, Federal EPA

California Environmental Protection Agency



RECEIVED

MAY 1 5 1998

INTEGRATED Environmental Services, Inc.

MDRU-CRS

May 13, 1998 Via Facsimile and Fed-Ex

Hugh Marley
California Environmental Protection Agency
Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754

SUBJECT:

Modification of Parcel B Supplemental Sampling and Analysis Plan

Boeing C-6 Facility, Los Angeles, California

Dear Mr. Marley:

Per our conversation today in your office, the sampling and analysis program for Area of Interest (AOI) 4 in Parcel B at the Boeing C-6 facility is being amended based on new information uncovered for the site. This letter addresses the second phase of the site investigation to be implemented in Parcel B. The first phase of the investigation, which defined the amended sampling program for AOIs 1, 2, and 3, was addressed in a letter to you dated April 28, 1998.

During our data gathering efforts, we identified additional structures in AOI 4 that should be included in the supplemental investigation.

Findings

Based on the new information, it was discovered that some of the buildings in AOI 4 housed operations involving the potential use or presence of chemicals. The buildings identified for investigation include the western portion of Building 4, Building 11, Building 14, and Building 15. Table 1 summarizes the historical use of each building and constituents of potential concern (COPCs).

Amended Scope of Work

The amended sampling program for AOI 4 will consist of advancing soil borings to depths of 10 or 15 feet below ground surface (bgs) in each of the four buildings to characterize potential impacts to the soil from the former operations. Soil samples will be collected at 5-foot intervals beginning at the surface. Fill material may have been imported into the area of the former aboveground transformer oil tanks prior to the construction of Building 4 by Douglas Aircraft Company (DAC). If so, the first sample shall be collected at the first encounter of native material. Continuous soil samples for chemical analysis shall be collected to a depth of 5 feet below the first encounter of native material at one boring location in the former transformer oil storage tank area. Concrete core samples will be collected from the foundation of Building 11. Table 2 summarizes the number of borings and depths, number of samples, and chemical analysis for each building. Figure 1 presents the sampling locations.



TABLE 1

Bldg. No.	Historical Use	COPCs
4	Formerly used to house three 8,000-gallon, aboveground transformer oil tanks in the western portion of the building.	PCBs
11	Formerly used as a transformer service building. A pump house was located outside the southwest corner of the service building. The pump house served to transfer oil between the aboveground transformer oil tanks and the service building.	PCBs
14	Former laboratory building. Based on information identified, it is believed that this laboratory was used to test the stress of metals. A laboratory layout drawing identified a special laboratory and dark room in the southwest portion of the laboratory. No documentation was identified which would indicate the use of x-ray photography during operation. Other former uses of this building included cafeteria, company store, and records storage.	
15	Former laboratory building with photography laboratory. No documentation was identified which would indicate the use of x-ray photography during operation. Other former uses of this building included cafeteria, payroll department, and shipping office.	

TABLE 2

AOI 4 Building	uilding No. of Borings and I		Chemical Analysis		
Area	Depth	Samples (1,2)			
Bldg. 4	9 @ 10 feet bgs (3)	36 (4)	PCBs		
Bldg. 11	3 concrete core	3	PCBs		
Bldg. 11	13 @ 10 feet bgs	39	PCBs		
Bldg. 11 - former pump house	3 @ 15 feet bgs (5)	12	PCBs		
Building 14	4 @ 15 feet bgs	16	VOCs, SVOCs, metals (incl. cyanide 6)		
Building 15	4 @ 15 feet bgs	16	VOCs, SVOCs, metals (incl. cyanide (6)		

⁽¹⁾ Soil samples shall be collected at 5-foot intervals with the first sample being collected at 0-6 inches below ground surface or the first encounter of native soil if fill material is present.

⁽²⁾ Quality assurance/quality control samples shall also be collected and shall include field blank, rinsate blank, and field duplicates; these samples are <u>not</u> included in the number of samples.

⁽³⁾ There is a potential that 1 to 2 feet of fill material was placed over this area prior to the construction of Building 4. The borings shall be advanced to a depth of 10 feet below the first encounter of native soil.

⁽⁴⁾ Continuous soil samples shall be collected for chemical analysis at one boring location in Building 4. There is a potential that 1 to 2 feet of fill material was placed over this area prior to the construction of Building 4; therefore, the continuous soil sampling shall begin at the first encounter of native soil and shall extend 5 feet below.



- (5) The borings in the former pump house area shall extend to 15 feet bgs due to the underground piping to the tank and transformer service areas.
- (6) PCBs will be included in the analysis of the soil samples collected from the two borings advanced along the main sewer line that runs east-west.

Prior to initiating the intrusive investigation, a geophysical survey will be conducted to clear the boring locations of subsurface structures. In addition, the geophysical survey will locate the sanitary sewer lines, including the depth below ground surface. Boring locations along the sewer lines will be placed based on the findings of the survey.

All other applicable sections of the Parcel B Sampling and Analysis Plan will be followed.

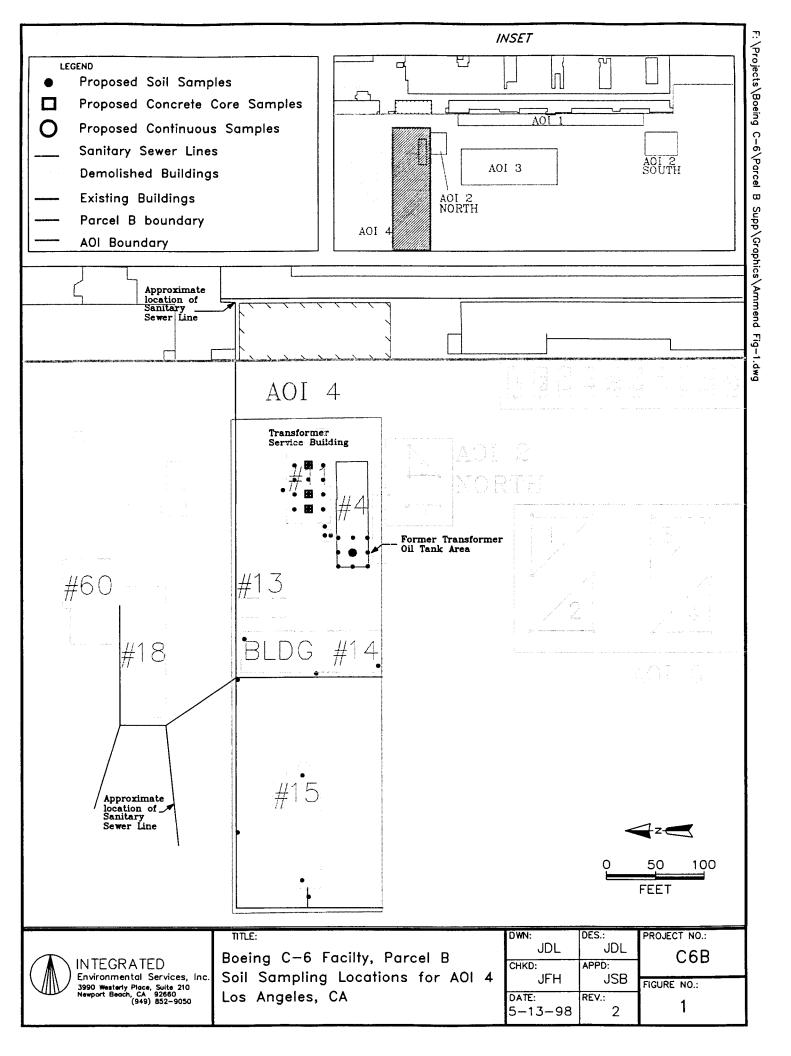
Based on your verbal approval, field investigation activities are tentatively scheduled to commence on during the week of May 18, 1998.

Please contact me at (714) 852-9050, extension 14, if you need further information.

MAS IX

roject Manager

cc: Mario Stavale, Boeing





Cal/EPA



Los Angeles Regional Water Quality Control Board

101 Centre Plaza Drive Monterey Park, CA 91754-2156 (213) 266-7500 FAX (213) 266-7600

May 8, 1998

Mr. Chris Stoker Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

MODIFICATION OF PARCEL B SUPPLEMENTAL SAMPLING AND ANALYSIS PLAN BOEING C-6 FACILITY, LOS ANGELES, CALIFORNIA (FILE NO. 100.315)

We have received and reviewed your Modification of Parcel B Supplemental Sampling and Analysis Plan, Boeing C-6 Facility, Los Angeles, dated April 28, 1998. Staff discussed the proposed modification with Boeing Reality Corporation's contractors on April 27, 1998 and provided BRC's contractors with verbal approval to proceed. This letter provides written authorization to implement the modified sampling and analysis plan.

Should you have any questions regarding the above, please contact Hugh Marley at (213) 266-7669.

J.E. ROSS, P.E., Unit Chief Site Cleanup Unit

cc: Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs

Mr. Mario Stavale, Boeing Realty Corporation

Mr. Jeff Dhont, Federal EPA



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Los Angeles Regional Water Quality Control Board

101 Centre Plaza Drive Monterey Park, CA 91754-2156 (213) 266-7500 FAX (213) 266-7600



MDRC-CRS



May 7, 1998

Mr. Chris Stoker Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

MODIFICATION OF PARCEL B SUPPLEMENTAL SAMPLING AND ANALYSIS PLAN BOEING C-6 FACILITY, LOS ANGELES, CALIFORNIA (FILE NO. 100.315)

We have received and reviewed your *Modification of Parcel B Supplemental Sampling and Analysis Plan, Boeing C-6 Facility, Los Angeles*, dated April 28, 1998. Staff discussed the proposed modification with Boeing Reality Corporation's contractors on April 27, 1998, and provided BRC's contractors with verbal approval to proceed. This letter provides written authorization to implement the above referenced modified sampling and analysis plan.

Should you have any questions regarding the above, please contact Hugh Marley at (213) 266-7669.

J.E. ROSS, P.E., Unit Chief Site Cleanup Unit

cc: Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs

Mr. Mario Stavale, Boeing Realty Corporation

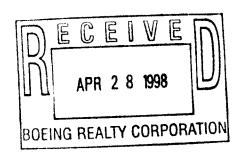
Mr. Jeff Dhont, Federal EPA



Cal/EPA

Los Angeles Regional Water Quality Control Board

April 27, 1998





101 Centre Plaza Drive Monterey Park, CA 91754-2156 (213) 266-7500 FAX (213) 266-7600

Mr. Michael Young Integrated Environmental Services, Inc. 3990 Westerly Place, Suite 210 Newport Beach, CA 92660

PARCEL B SUPPLEMENTAL SAMPLING AND ANALYSIS PLAN - BOEING C-6 FACILITY LOS ANGELES, CALIFORNIA (FILE No. 100.315)

We have received and reviewed the *Parcel B Supplemental Sampling and Analysis Plan - Boeing C-6 Facility, Los Angeles, California*, dated April 7, 1998. The workplan addresses potential areas of concern identified in recently discovered aerial photographs. Staff also discussed the workplan with Boeing Realty Corporation's consultants on March 25 and April 2, 1998. Our comments on the workplan are as follows:

- Please locate all storm drains and catch basins, if any, on a site map. Include a sampling plan for the storm drain system, as appropriate.
- Samples proposed in the Storage Tank Area listed in Section 3.1.4 should also be analyzed for petroleum hydrocarbon contamination.
- Identify all chemical storage, use, and disposal practices at Building 15 (former photo laboratory). Propose sampling locations in the above referenced areas. Samples should be analyzed for chemicals typically associated with photo laboratories.
- The supplemental sampling and analysis approach shown on page 3-6 states that a select number of samples will be analyzed for confirmation and future risk assessment. Please include the quantity of samples to be analyzed per area of interest.
- The EDXRF screening method detection limits are higher than two of the metal HBRGs, and are not available for others at this site, as noted on pages A-5 and 6-8. Identify how the sampling and analysis plan addresses the limitations of the EDXRF screening method.

Should you have any questions or comments regarding the above, please call me at (213)266-7550.

J.E. ROSS, P.E., Unit Chief

Site Cleanup Unit

cc: Ms. Karen Baker, DTSC, Long Beach

Ms. Debbie Oudiz, Office of Scientific Affairs

✓Mr. Mario Stavale, Boeing Realty Corporation.

Mr. Jeff Dhont, Federal EPA